



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Travaux publics et Services gouvernementaux
Canada

Voir dans le document/

See herein

NA

Québec

NA

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du

fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Travaux publics et Services gouvernementaux Canada
Place Bonaventure, portail Sud-Oue
800, rue de La Gauchetière Ouest
7e étage, suite 7300
Montréal
Québec
H5A 1L6

Title - Sujet Electric power monitoring equipment	
Solicitation No. - N° de l'invitation 23332-210719/C	Date 2021-04-15
Client Reference No. - N° de référence du client 23332-210719	
GETS Reference No. - N° de référence de SEAG PW-\$MTA-280-16139	
File No. - N° de dossier MTA-0-43256 (280)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Daylight Saving Time EDT on - le 2021-05-18 Heure Avancée de l'Est HAE	
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Blanchet, Annie	Buyer Id - Id de l'acheteur mta280
Telephone No. - N° de téléphone (514) 605-3664 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CAMNET, centre de la technologie de l'énergie 1615 BOUL.LIONEL BOULET BP4800 VARENNES Québec J3X1S6 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée Voir doc.	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

This bid solicitation cancels and supersedes previous bid solicitation number 23332-210719/B dated 2021-02-24 with a closing of 2021-03-12 at 02:00 PM.

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PART 1 - GENERAL INFORMATION

1.1 Requirement

The requirement is detailed under Article 6.2 of the resulting contract clauses.

1.2 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

1.3 Canadian Content

The requirement is subject to a preference for Canadian goods.

1.4 epost Connect service

"This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information."

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The [2003](#) (2020-05-28) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days
Insert: 120 days

2.1.1 SACC Manual Clauses

[B1000T](#) (2014-06-26), Condition of material – Bid

2.1.2 Best Delivery Date – Bid *(to be filled by the bidder)*

While delivery is requested as soon as possible, the best delivery that could be offered is _____.

2.2 Submission of Bids

Bids must be submitted only to the Public Works and Government Services Canada (PWGSC) Bid Receiving Unit specified below by the date and time indicated on page 1 of the bid solicitation:

PWGSC Québec Region Bid Receiving Unit

Only bids submitted using epost Connect service will be accepted. The Bidder must send an email requesting to open an epost Connect conversation to the following address: TPSGC.RQReceptionSoumissions-QRSupplyTendersReception.PWGSC@tpsgc-pwgsc.gc.ca

Note: Bids will not be accepted if emailed directly to this email address. This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions [2003](#), or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

It is the Bidder's responsibility to ensure the request for opening an epost Connect conversation is sent to the email address above at least six days before the solicitation closing date.

For more information on the use of Postel, please see the following link.

<https://buyandsell.gc.ca/steps-to-follow-for-the-bid-submission-to-bid-receiving-unit-bru-using-epost-connect>

Bids transmitted by facsimile or hardcopy to PWGSC will not be accepted.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than five (5) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.4 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Quebec.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

2.5 Bid Challenge and Recourse Mechanisms

(a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.

(b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Buy and Sell website, Bid Challenge and Recourse Mechanisms contains information on potential complaint bodies such as:

Office of the Procurement Ombudsman (OPO)
Canadian International Trade Tribunal (CITT)

(c) Suppliers should note that there are strict deadlines for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

The Bidder must submit its bid electronically in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications
Section IV: Additional Information

Bids transmitted by facsimile or hardcopy will not be accepted.

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment.

3.1.1 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex "X" Electronic Payment Instruments, to identify which ones are accepted.

If Annex "X" Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.2 Exchange Rate Fluctuation

C3011T (2013-11-06), Exchange Rate Fluctuation

3.1.3 SACC Manual Clauses

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.
- (c) The evaluation team will determine if there are two (2) or more bids with a valid Canadian content certification with the bids coming from two or more Bidders that are not affiliated within the meaning used in the Competition Act, R.S.C., 1985, c. C-34. In that event, only those bids with a valid certification will be eligible to be awarded a contract; otherwise, all bids will be eligible. If at any point in the evaluation process it is found, whether by determination of invalidity of certifications, determination that bids are non-responsive or withdrawal of bids by Bidders, that there are no longer two (2) or more responsive bids with a valid certification, then all responsive bids will be eligible to be awarded a contract. Canada may conduct the validation of Canadian content certifications at any time in the evaluation process including doing so concurrently with other steps.

4.1.1 Technical Evaluation

The technical evaluation will be based on the mandatory technical criteria detailed in Annex C.

Bidders must demonstrate that the goods and/or services offered are compliant with each of these mandatory technical criteria with documents and/or technical drawings, which must be submitted with their proposal.

Bidders should complete the grid in Annex C in order to indicate where the technical criteria are demonstrated within their submitted documents and/or technical drawings and include it with their proposal.

4.1.1.1 Mandatory Technical Criteria

See Annex C "Mandatory technical evaluation criteria"

4.1.2 Financial Evaluation

1. Bidders must submit firm prices, customs duties and excise taxes included, and Applicable Taxes excluded.
2. Unless the bid solicitation specifically requires bids to be submitted in Canadian currency, bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date, or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.
3. Bidders must provide prices Delivered Duty Paid (DDP) Varennes (Quebec) Incoterms 2010 for shipments from a commercial contractor. Bids will be assessed on an DDP basis.

4.1.2.1 The total amount of the financial evaluation: Sum of prices of items 1 ,2 and 3 listed in Appendix "B"- Basis of payment

4.2 Basis of Selection - Mandatory Technical Criteria

SACC Manual Clause A0031T (2010-08-16) Basis of Selection - Mandatory Technical Criteria

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.1.2 Additional Certifications Required with the Bid

5.1.2.1 Canadian Content Certification

This procurement is conditionally limited to Canadian goods.

Subject to the evaluation procedures contained in the bid solicitation, bidders acknowledge that only bids with a certification that the good(s) offered are Canadian goods, as defined in clause [A3050T](#), may be considered.

Failure to provide this certification completed with the bid will result in the good(s) offered being treated as non-Canadian goods.

The Bidder certifies that:

() the good(s) offered are Canadian goods as defined in paragraph 1 of clause [A3050T](#).

5.1.2.1.1 SACC Manual clause [A3050T](#) (2020-07-01) Canadian Content Definition

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Security Requirements

6.1.1 There is no security requirement applicable to the Contract.

6.2 Requirement

The Contractor must provide the items detailed under the "Requirement" at Annex "A".

6.2.1 Optional Goods

The Contractor grants to Canada the irrevocable option to acquire the goods described at Annex "A" of the Contract under the same conditions and at the prices stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option within 12 months after contract award by sending a written notice to the Contractor.

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

[2010A](#) (2020-05-28), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract to _____ inclusive. (will be indicated at contract award)

(The end date will be calculated as follows: six (6) months after the date of delivery.)

6.4.2 Delivery Date

All the deliverables must be received on or before _____ (will be indicated at contract award).

6.4.3 Delivery Points

Delivery of the requirement will be made to delivery point(s) specified at Annex "A" of the Contract.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Annie Blanchet
Title: Supply specialist
Public Works and Government Services Canada
Acquisitions Branch
Telephone: 514 605 3664
E-mail address: annie.blanchet@tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

6.5.2 Technical Authority

The Technical Authority for the Contract is:

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone: ____-____-____
Facsimile: ____-____-____
E-mail: _____.

The Technical Authority named above is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Contractor's Representative

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone: ____-____-____
Facsimile: ____-____-____
E-mail: _____.

6.6 Payment

6.6.1 Basis of Payment - Firm Lot Prices

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot price, as specified in Annex "B" for a cost of \$ _____ (*will be indicated at contract award*). Customs duties are included and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.6.2 Paiement unique

SACC Manual clause [H1001C](#) (2008-05-12) Multiple Payment

6.6.3 SACC Manual Clauses

SACC Manual clause [C2000C](#) (2007-11-30) Taxes - Foreign-based Contractor

6.6.4 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

6.7 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
 - a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

6.8 Certifications and Additional Information

6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.8.2 SACC Manual Clauses

SACC Manual clause [A3060C](#) (2008-05-12) Canadian Content Certification

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____.

6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the general conditions [2010A](#) (2020-05-28), General Conditions - Goods (Medium Complexity),
- (c) Annex A, Requirement;
- (d) Annex B, Basis of payment
- (e) the Contractor's bid dated _____

6.11 SACC Manual Clauses

SACC Manual clause [A9068C](#) (2010-01-11) Government Site Regulations

SACC Manual clause [G1005C](#) (2016-01-28) Insurance - No Specific Requirement

6.12 Dispute Resolution

(a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.

(b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.

(c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.

(d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "Dispute Resolution".

ANNEX "A"- Requirement

1-Context:

In the course of the Varennes Interactive Grid (VARIG) R&D project, the CanmetENERGY Research Centre in Varennes requires procuring electric power monitoring equipment for medium voltage (MV) lines. These sensors will be deployed at different overhead MV lines to monitor electrical quantities at regular intervals.

To effectively monitor the status of a distribution grid and test demand response (DR) events, 12 individual sensors rated for MV lines will be required. Each unit must be capable of operating independently, log its historical measurements in an internal memory, and regularly transmit and display the logged data remotely. Monitoring campaigns would generally last from a few weeks to a year and then sensors would be moved around.

If multiple systems fitting the requirements are available, please quote for each system.

2- Quantity:

12 individual sensors to be deployed at different MV lines of a distribution grid. The CanmetENERGY Research Centre want to monitor 3 three-phase lines as well as 3 single-phase lines (6 different locations in total).

3- Mandatory technical criteria

General Characteristics:

1. Off-the-shelf design (i.e. except minor variations, demonstration must be made that the equipment is already designed and used by other commercial clients).
2. Language of interface and documentation in either of the Canadian official languages (English or French).
3. Sensor must be self-powered and not be dependent on an auxiliary power source.
4. Sensor must operate and measure at 60 Hz nominal frequency.
5. Sensor must be of the clamp-on type for installation on overhead MV lines.
6. Compatible with conductor diameters:
 - a. Minimum ≤ 0.3 inches
 - b. Maximum ≥ 1.0 inches
7. Operating temperature range:
 - a. Minimum $\leq -30^{\circ}\text{C}$
 - b. Maximum $\geq 40^{\circ}\text{C}$
8. Hot-stick installation required for sensor mounting.
9. The sensor must be rated for outdoors

Measurement:

10. Measures the following electrical quantities:
 - a. Line voltage (V)
 - b. Line current (A)
 - c. Active/reactive/apparent power (W, VAR, VA)
 - d. Power factor
11. Measurement range of line-line voltage:
 - a. Minimum ≤ 4 kV
 - b. Maximum ≥ 35 kV
12. Measurement errors:
 - a. Line voltage $\leq 1.0\%$
 - b. Line current $\leq 1.0\%$
13. Stores measured and logged data for at least 96 samples per day
14. Includes timestamped data logging.
15. Measured data must be time-synchronised
16. Measurement of harmonics is included.

Communication:

17. Capability of cellular data communication.
18. Capability of retrieving measurement data remotely.

Support :

19. Supplied software (if applicable) must be compatible with the Windows Operating System 7 and above.

Solicitation No. - N° de l'invitation
23332-210719/C
Client Ref. No. - N° de réf. du client
23332-210719

Amd. No. - N° de la modif.
File No. - N° du dossier
MTA-0-43256

Buyer ID - Id de l'acheteur
MTA 280
CCC No./N° CCC - FMS No./N° VME

4-Delivery:

4.1 The equipment must be delivered to the following address:

Natural resources Canada
1615 Lionel-Boulet Boulevard
Varenes, Qc, J3X 1P7

5-Deliverables:

5.1 The supplier must provide a technical support by phone and/or email for at least one year after delivery.

5.2 The supplier must provide the user manuals, documentation, system interface and training material.

6. Optional Goods

Electric power monitoring equipment for medium voltage (MV) lines as described in Appendix A – Requirement, section 3.

Quantity : 3

-

ANNEX "B"- BASIS OF PAYMENT

Item	Description	Quantity	Total price *
1.	Electric power monitoring equipment for medium voltage (MV) lines as described in Appendix A –Requirement, section 3.	12	\$ _____/lot
2.	Delivery as described in Appendix A-Requirement, Section 4.1	Lot	\$ _____
	Total		\$ _____

*Applicable taxes extra

Optional Goods:

Item	Description	Quantity	Unit price *
3.	Electric power monitoring equipment for medium voltage (MV) lines as described in Appendix A –Requirement, section 3 . <u>Delivery included</u>	3	\$ _____/each

*The prices provided for optional goods must be valid for 12 months from the date of issuance of the contract and the applicable taxes are extra. Natural Resources Canada may acquire the optional goods one at a time.

ANNEX “C”- Mandatory technical evaluation criteria

	Mandatory technical criteria	Technical demonstration Indicate where these mandatory technical criteria are demonstrated within your submitted documents and/or technical drawings include your proposal
1	Off-the-shelf design (i.e. except minor variations, demonstration must be made that the equipment is already designed and used by other commercial clients).	
3.	Sensor must be self-powered and not be dependent on an auxiliary power source.	
4.	Sensor must be operate and measure at 60 Hz nominal frequency.	
5.	Sensor must be of the clamp-on type for installation on overhead MV lines.	
6.	Compatible with conductor diameters:	
	a. Minimum \leq 0.3 inches	
	b. Maximum \geq 1.0 inches	
7.	Operating temperature range:	
	a. Minimum \leq -20°C	
	b. Maximum \geq 40°C	
8.	Hot-stick installation required for sensor mounting.	

9.	The sensor must be rated for outdoors.	
10.	Measures the following electrical quantities:	
	a. Line voltage (V)	
	b. Line current (A)	
	c. Active/reactive/apparent power (W,VAR,VA)	
	d. Power factor	
11.	Measurement range of line-line voltage:	
	a. Minimum ≤ 4 kV	
	b. Maximum ≥ 35 kV	
12.	Measurement errors:	
	a. Line voltage $\leq 1.0\%$	
	b. Line current $\leq 1.0\%$	
13.	Stores measured and logged data for at least 96 samples per day.	
14.	Includes timestamped data logging.	
16.	Measurement of harmonics is included.	
17.	Capability of cellular data communication.	
18.	Capability of retrieving measured data remotely.	

Note: No web links will be accepted.

Solicitation No. - N° de l'invitation
23332-210719/C
Client Ref. No. - N° de réf. du client
23332-210719

Amd. No. - N° de la modif.
File No. - N° du dossier
MTA-0-43256

Buyer ID - Id de l'acheteur
MTA 280
CCC No./N° CCC - FMS No./N° VME

ANNEX "D"- ELECTRONIC PAYMENT INSTRUMENTS

The Bidder accepts any of the following Electronic Payment Instrument(s):

- ☐ () VISA Acquisition Card;
- ☐ () MasterCard Acquisition Card;
- ☐ () Direct Deposit (Domestic and International);
- ☐ () Electronic Data Interchange (EDI);
- ☐ () Wire Transfer (International Only);
- ☐ () Large Value Transfer System (LVTS) (Over \$25M)